



15992 U.S. PTO

Express Mail Number: EL 984585238 US  
 Date Deposited: 03/31/2004

**APPROVED**  
 for  
**PTO DEPOSIT ACCOUNT CHARGE**  
**ACCOUNT #04-1700**

PTO/SB/05 (11-00)  
 Approved for use through 10/31/2002. OMB 0651-0032  
 DUNLAP, CODDING & ROGERS, P.C.  
 United States Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	4599.014
First Inventor	Paul DeAngelis
Title	HEPARIN/HEPAROSAN SYNTHASE FROM P. MULTOCIDA, SOLUBLE AND SINGLE ACTION CATALYSTS THEREOF AND METHODS OF
Express Mail Label No.	EL 984585238 US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 57]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description -Redline Specification pgs
  - Claim(s) -Clean Specification pgs
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [ Total Sheets 10 ]
- Oath or Declaration [ Total Pages ]  
 a.  Newly executed (original or copy)  
 b.  Copy from a prior application (37 CFR 1.63 (d))  
 (for continuation/divisional with Box 18 completed)
  - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Mail Stop Patent Appl., Comm. for Patents  
 PO Box 1450  
 Alexandria, VA 22313-1450

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of Attorney (when there is an assignee)
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.  Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: SEE BELOW

18. This application is:

Continuation  Divisional  Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group Art Unit: \_\_\_\_\_

As a CON, DIV, or CIP, this application contains one or more changes to (1) the specification; (2) drawings; or (3) claims in the above-identified prior application. A red-line version of the application showing these changes will be made available to the examiner upon request.

**19. CORRESPONDENCE ADDRESS**

<input checked="" type="checkbox"/> Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here)	30589	or	<input type="checkbox"/> Correspondence address below
Name	Dunlap, Coddling & Rogers, P.C.		
Address	P. O. Box 16370 Attn: Kathryn L. Hester, Ph.D.		
City	Oklahoma City	State	OK
Country	USA	Telephone	(405) 607-8600
Name (Print/Type)	Kathryn L. Hester, Ph.D.	Registration No. (Attorney/Agent)	46,768
Signature			Date 3-31-04

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See (17) above: 1. Utility Patent Application Transmittal Form (1 page);  
 2. Fee Transmittal for FY 2003 (1 page);  
 3. Fee Determination Record (1 page);  
 4. UTILITY PATENT APPLICATION (57 pages);  
 5. Drawings (10 sheets);  
 6. Statement That Content Of The Paper And Computer Readable Copy Are The Same and Contain No New Matter; and  
 7. Postcard.

10/814752  
151310/814752  
1513  
1. **DISK EDITION**  
2. **Copies of record to be made**  
3. **Patent**

033104  
5992  
U.S.P.T.O.Express Mail No.: EL 984585238 US  
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DUMLAP, CODDING & ROGERS U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCEApproved for use through 07/31/2006. OMB 0651-0032  
PTO/SB/17 (10-03)

# FEE TRANSMITTAL for FY 2004

Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 428

## Complete if Known

Application Number	Not Yet Assigned
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Examiner Name	Not Yet Assigned
Art Unit	Unknown
Attorney Docket No.	4599.014

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None
 Deposit Account:

04-1700

Deposit Account Number  
Deposit Account Name  
Dunlap, Codding & Rogers, P.C.  
Customer No. 30589

The Commissioner is authorized to: (check all that apply)  
 Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee either to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	385
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1) (\$ 385			

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
18	4		- 20** = 0	X 9 = \$0	
			- 3 ** = 1	X 43 = \$43	
					\$0

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ 43		

\*\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0

(Complete if applicable)

SUBMITTED BY	Name (Print/Type)	Registration No. (Attorney/Agent)	Telephone
Signature	Kathryn L. Hester, Ph.D.	46,768	(405) 607-8600